

ABSTRACT OF THE DISCLOSURE

A new family of concrete admixture additives can be derived from reacting a mixture of olefins/cyclic olefins-maleic anhydride copolymers and methoxy polyethylene glycol amines and/or polyethylene glycol monoalkyl ethers, or a mixture of styrene-maleic anhydride copolymers and methoxy polyethylene glycol amines and/or polyethylene glycol monoalkyl ethers, or a mixture of styrene-olefins/cyclic olefins-maleic anhydride terpolymers and methoxy polyethylene glycol amines and/or polyethylene glycol monoalkyl ethers. These reactions lead to formation of a kind of carboxylic salt containing polymer, which can be used alone in concrete. Only a small amount of this substance is needed to provide excellent water reduction, high concrete flowability and high early strength.